

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. When strikethrough cannot easily be perceived, or when five or fewer characters are deleted, [[double brackets]] are used to show the deletion. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

1. (Currently Amended) A frequency hopping wireless communication method for performing communications between a plurality of wireless communication terminals, each wireless communication terminal having: a transmitting unit for generating a radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal; and a receiving unit for generating an intermediate frequency band demodulation signal downconverted by multiplying a radio modulation signal by a local oscillation signal, and demodulating the signal in the intermediate frequency band modem, ~~characterized in that~~ the frequency hopping wireless communication method comprising:

transmitting one transmitting station transmits a reference local oscillation signal from a transmitting station;

modulating each of the plurality of wireless communication terminals modulates a transmission signal in the frequency hopping system using the intermediate frequency band modem, and demodulates demodulating a received signal by each wireless communication terminal of the plurality of wireless communication terminals; and

each of the plurality of wireless communication terminals receives receiving the reference local oscillation signal from the transmitting station, amplifies amplifying and band filters filtering the received signal, regenerates regenerating the reference local oscillation signal by an injection synchronous oscillator or an amplifier, and mutually performs performing mutual communications using the regenerated signal as a local oscillation signal for use by a transmitting function and a receiving function in each wireless communication terminal of the plurality of wireless communication terminals.

2. (Currently Amended) The frequency hopping wireless communication method according to claim 1, further comprising ~~one~~ a dedicated transmitting station for transmitting only the reference local oscillation signal.

3. (Currently Amended) The frequency hopping wireless communication method according to claim 1, wherein

one wireless communication terminal of the plurality of wireless communication terminals acts as a base station or a parent station, and transmits a local oscillation signal for use in the base station or the parent station together with a radio modulation signal, and

each child station, which is any wireless communication terminal ~~one~~ of the ~~other~~ plurality of wireless communication terminals other than the one wireless communication terminal acting as the base station or the parent station, receives ~~a~~ the reference local oscillation signal transmitted by the base station or the parent station.

4. (Currently Amended) A frequency hopping wireless communication method for performing communications between a plurality of wireless communication terminals each wireless communication terminal having: a transmitting unit for generating a radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal; and a receiving unit for generating an intermediate frequency band demodulation signal downconverted by multiplying a radio modulation signal by a local oscillation signal, and demodulating the signal in the intermediate frequency band modem, ~~characterized in that~~ the frequency hopping wireless communication method comprising:

~~in each of the plurality of wireless communication terminals, the transmitting unit~~ upconverts ~~upconverting~~ a modulation signal generated in an intermediate frequency band to a radio frequency band using a local oscillation signal functioning as a hopping synthesizer by the transmitting unit in each of the plurality of wireless communication terminals, and simultaneously ~~transmits~~ transmitting a frequency hopping radio modulation signal of a single-side band wave or a both-side band wave obtained by the ~~upconversion~~ upconverting and the local oscillation signal used in the ~~upconversion~~ upconverting; and

~~the receiving unit downconverts~~ downconverting a received signal by the receiving unit to a first intermediate frequency band signal using a local oscillation signal frequency hopping in

a pattern obtained by adding a fixed frequency offset to a frequency hopping pattern corresponding to a desired reception wave, and then ~~extracts~~extracting two signal components, ~~that is,~~ a local oscillation signal component and a modulation signal component, by passing the downconverted signal through a band pass filter, and ~~generates~~generating a product component of the two signal components, thereby regenerating a second intermediate frequency band modulation signal.

5. (Currently Amended) A frequency hopping wireless communication system for ~~performing communications between comprising:~~

a plurality of wireless communication terminals, each wireless communication terminal having:

a transmitting unit for generating a radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal; and

a receiving unit for generating an intermediate frequency band demodulation signal downconverted by multiplying a radio modulation signal by a local oscillation signal, and demodulating the signal in the intermediate frequency band modem, ~~comprising:~~

a transmitting station for transmitting a reference local oscillation signal, wherein:

the intermediate frequency band modem ~~which is configured by~~includes an intermediate frequency band modulation/demodulation device, modulates a transmission signal, and demodulates a received signal; and

each wireless communication terminal of the plurality of wireless communication terminals receives the reference local oscillation signal from the transmitting station, amplifies and band filters the signal, regenerates the reference local oscillation signal by an injection synchronous oscillator or an amplifier, and ~~mutually performs~~ mutual communications using the regenerated signal as a local oscillation signal for use by a transmitting function and a receiving function.

6. (Original) The frequency hopping wireless communication system according to claim 5, further comprising

one transmitting station for transmitting only the reference local oscillation signal.

7. (Currently Amended) The frequency hopping wireless communication system according to claim 5, wherein

one of the plurality of wireless communication terminals acts as a base station or a parent station and transmits a local oscillation signal for use in the station together with a radio modulation signal, and each child station which is ~~one~~any of the ~~other~~ wireless communication terminals other than the one wireless communication terminal acting as the base station or the parent station, receives a reference local oscillation signal transmitted by the base station or the parent station.

8. (Currently Amended) A frequency hopping wireless communication system, ~~for performing communications between comprising:~~

a plurality of wireless communication terminals, each wireless communication terminal having:

a transmitting unit for generating a radio modulation signal by multiplying an intermediate frequency band modulation signal from an intermediate frequency band modem by a local oscillation signal; and

a receiving unit for generating an intermediate frequency band demodulation signal downconverted by multiplying a radio modulation signal by a local oscillation signal, and demodulating the signal in the intermediate frequency band modem, ~~characterized in that:~~ wherein

in each of the plurality of wireless communication terminals, the transmitting unit upconverts a modulation signal generated in an intermediate frequency band to a radio frequency band using a local oscillation signal functioning as a hopping synthesizer, and simultaneously transmits a frequency hopping radio modulation signal of a single-side band wave or a both-side band wave obtained by the upconversion and the local oscillation signal used in the upconversion; and

the receiving unit downconverts a received signal to a first intermediate frequency band signal using a local oscillation signal frequency hopping in a pattern obtained by adding a fixed frequency offset to a frequency hopping pattern corresponding to a desired reception wave, and then extracts two signal components, that is, a local oscillation signal component and a modulation signal component, by passing the downconverted signal through a band pass filter,

and generates a product component of the two signal components, thereby regenerating a second intermediate frequency band modulation signal.